	Application No.	Applicant(s)
Notice of Allowability		
	09/837,733 Examiner	PEPPER ET AL. Art Unit
	Damand F Carry	2004
	Bernard E Souw	2881
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to <u>RCE filed 10/01/2004</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-30</u> .		
3. 🔀 The drawings filed on <u>15 May 2003</u> are accepted by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers	e been received. e been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara	national stage application from the complying with the requirements as AMENDMENT or NOTICE OF ation is deficient.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 08), 7. ☐ Examiner's Amenda	te

Application/Control Number: 09/837,733

Art Unit: 2881

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October

01, 2004 has been entered.

Applicant's Amendment

2. The Amendment filed 10/01/2004 has been entered in reply to the final office

action of March 26,2004. The present Office Action is made with all the arguments

being fully considered.

The claims have been amended.

No claim has been cancelled.

Claims 1-30 remain pending in this office action.

ALLOWANCE

3. Claims 1-30 are allowed.

Page 2

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

A system or method for focusing electromagnetic energy on a target comprising a first means for analyzing information contained in a received electromagnetic field originating from a reflection of a beacon or pilot signal at the target to determine specific and characteristic information about target, the received electromagnetic signal being distorted by the atmosphere, and a second means for providing a modulated output beam back to the target, the modulated return-beam having been changed in one or more characteristics while being also pre-distorted to compensate for the atmospheric distortions, phase noise and amplitude noise incurred to the received signal, as recited in claims 1, 19 and 30, is neither anticipated nor rendered obvious by any prior art.

Claims 2-18 and 20-29 are also allowed because of their dependencies, either directly or indirectly, upon claim 1 or claim 19.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Relevant Prior Arts

6. These prior arts made of record and not relied upon are considered pertinent to applicant's disclosure: (a) USPAT # 6,674,520, issued on 01/06/2001 to Hicks et al. and (b) USPAT # 6,738,012, issued on 05/18/2004 to Kirkpatrick, are found to claim subject matter(s) similar to the present disclosure, i.e., a countermeasure against an upcoming airborne threat, however, without using a beacon or pilot light and without generating a countermeasure radiation based on the signal reflected from the target, and without the use of adaptive optics to compensate for atmospheric distortion.

Further pertinent prior arts of record but not relied upon are (c) USPGPUB # 2003/0062468 and (d) USPGPUB # 2003/0062464, both issued on 04/03/2003 to Byren et al., claiming a countermeasure based on a target return signal from a beacon/pilot beam while aiming at destroying the target by high energy laser beam that is compensated for atmospheric distortions, which is here equivalent to the output beam of the present disclosure, however, without a means for, or step of, analyzing the target return signal to determine the nature and characteristics of the target, as claimed in the present invention.

Another pertinent prior art reference is an article appearing in Aerotech News and Review, 11/21/2001, titled "BAE Systems Tactical IR Countermeasure passes major milestone", http://www.aerotechnews.com/starc/2001/112101/BAE_systems.html, reporting a similar countermeasure system recently manufactured and susccessfully tested by the BAE Systems. However, similar to (a) and (b), neither target return from a beacon/pilot beam nor compensation for atmospheric distortion is included in the report.

Application/Control Number: 09/837,733

Art Unit: 2881

Communications

Page 5

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Bernard E Souw whose telephone number is 571 272

2482. The examiner can normally be reached on Monday thru Friday, 9:00 am to 5:00

pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R Lee can be reached on 571 272 2477. The central fax phone

number for the organization where this application or proceeding is assigned is (703)

872-9306 for regular communications as well as for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703 308

0956.

bes

October 22, 2004

JOHN R. LEE

SUPERVISERY PATENT EXAMINER

TEMNOLOGY CENTER 2800